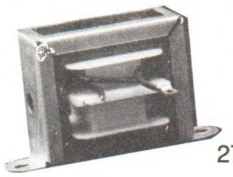
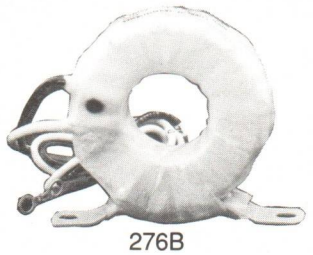
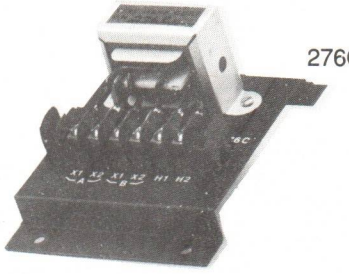
Model 276 Series
CURRENT TRANSFORMERS


276A


276B


276C

DESCRIPTION

276A - A low cost open-frame type current transformer. For use with up to 8-gauge wire and up to 40 amps on the primary. 2500 VRMS insulation is standard. Frequency range is 25-400 Hz.

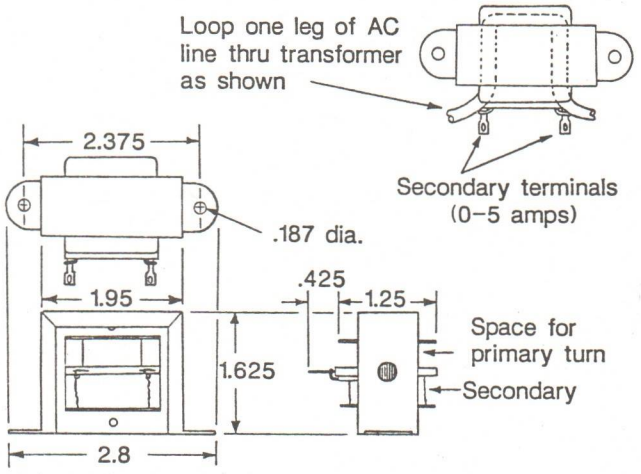
276B - A ring-type current transformer for currents from 50 to 1000 amps. The 276B has a 2 VA output capacity, 25-400 Hz frequency range, 4500 VRMS insulation, 24-inch secondary leads and mounting brackets. When the primary lead enters the CT from the side marked with the polarity dot, the white secondary lead is in phase with the primary current.

276C - A current-canceling transformer for use in 3-phase applications with Time Mark Model 400 Motor Load Monitor. Accepts input from two CT's, corrects for the third leg, and provides a single current to the Model 400.

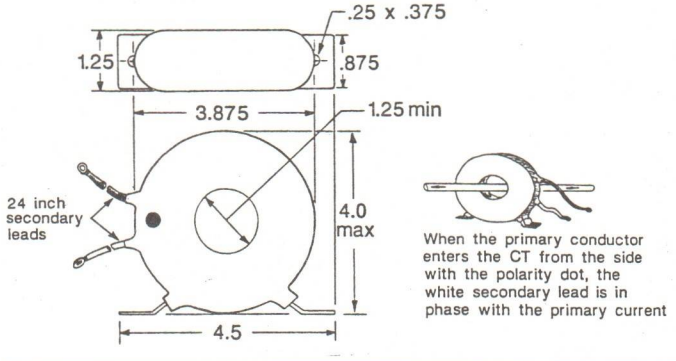
SELECTION CHART

Ratio	Part no.	Ratio	Part no.	Accuracy	Ratio	Part no.	Accuracy
		50:5	276B-50	6.0%	300:5	276B-300	1.0%
10:5	276A-10	60:5	276B-60	5.0%	400:5	276B-400	.75%
15:5	276A-15	75:5	276B-75	3.8%	500:5	276B-500	.60%
20:5	276A-20	80:5	276B-80	3.8%	600:5	276B-600	.50%
25:5	276A-25	100:5	276B-100	3.0%	700:5	276B-700	.43%
30:5	276A-30	150:5	276B-150	2.0%	750:5	276B-750	.40%
35:5	276A-35	200:5	276B-200	1.5%	800:5	276B-800	.38%
40:5	276A-40	250:5	276B-250	1.2%	1000:5	276B-1000	.40%

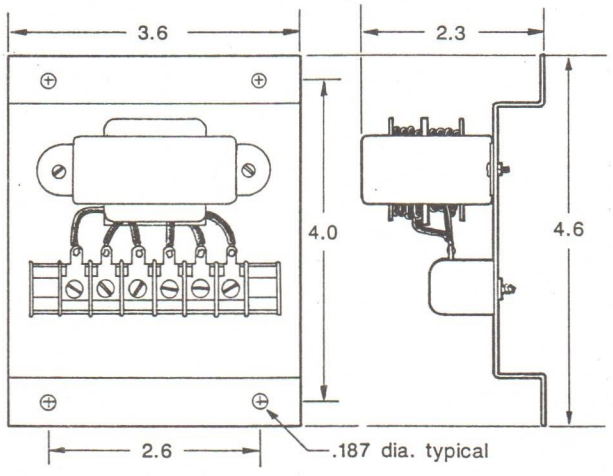
DIMENSIONS - 276A



DIMENSIONS - 276B


.25 x .375
1.25
.875
3.875
1.25 min
24 inch secondary leads
4.0 max
4.5
When the primary conductor enters the CT from the side with the polarity dot, the white secondary lead is in phase with the primary current

DIMENSIONS - 276C



TIME MARK® CORPORATION
11440 EAST PINE
TULSA OKLAHOMA 74116
(800) 862-2875
in OK (918) 438-1220

TITLE MODEL 276 CURRENT TRANSFORMERS

Dimensions are in inches unless otherwise specified. Drawings show no power applied.

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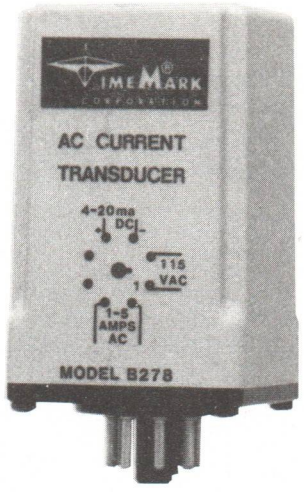
FORM NO. 87A13 8/87

Model 278
AC CURRENT TRANSDUCER



- **High accuracy**
- **Low cost**
- **Isolated input and output**
- **Solid-state design**
- **Socket mounted**

DESCRIPTION

Model 278 Current Transducers are designed to accept an AC current input and provide a proportional DC output. A linear transformer input is coupled to a solid-state output amplifier. The transducer is powered by a 120 VAC source and is socket mounted for ease of use. The Model 278 Current Transducer can be used with computer and programmable controls to provide:

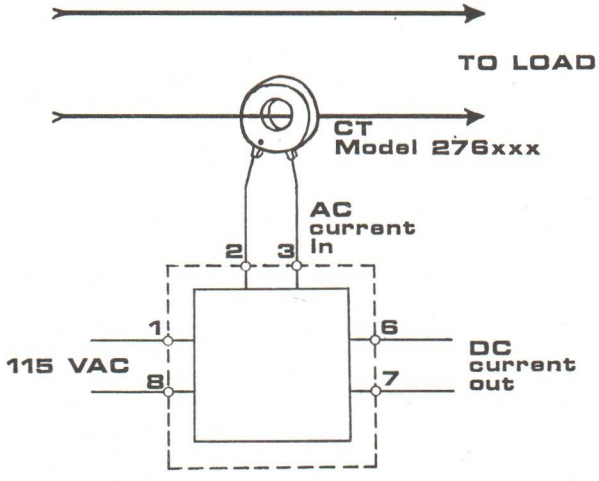
- motor and power control
- supervisory data acquisition
- load monitoring
- feedback control
- energy management

The Model 278 is available in 3 standard versions (refer to specifications for details). For special input or output variations, consult the factory.

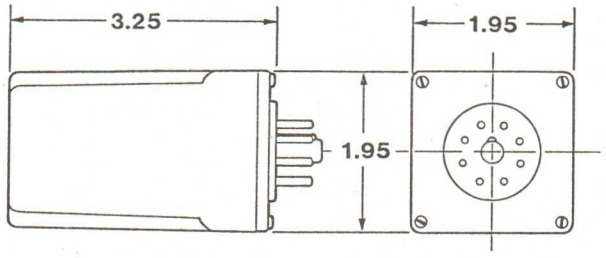
SPECIFICATIONS

Model number	A278	B278	C278
Supply voltage	120 VAC	120 VAC	120 VAC
Input Current (AC)	0-5 amps	1-5 amps	0-5 amps
Input frequencies	47-1000 Hz	47-1000 Hz	47-1000 Hz
Input burden	0.5 VA	0.5 VA	0.5VA
Output	0-1 ma	4-20 ma	4-20 ma
Max load (ohms)	20K	1K	1K
Output accuracy	±1%		
Output ripple	1% max		
Response time	250 ms from 0-99%		
Overload withstand	2 times rated input continuous 10 times rated input for 1 second		
Operating temperature	-10 to 60° C		
Operating humidity	0-97% w/o condensation		
Case	ABS plastic		
Mounting	8 pin screw terminal socket		
Weight	6 oz. max		

WIRING DIAGRAM



DIMENSIONS



TIMEMARK® CORPORATION
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TULSA OKLAHOMA 74116
(800) 862-2875
in OK (918) 438-1220

TITLE
MODEL 278
AC CURRENT TRANSDCER

Dimensions are in inches unless otherwise specified. Drawings show no power applied.

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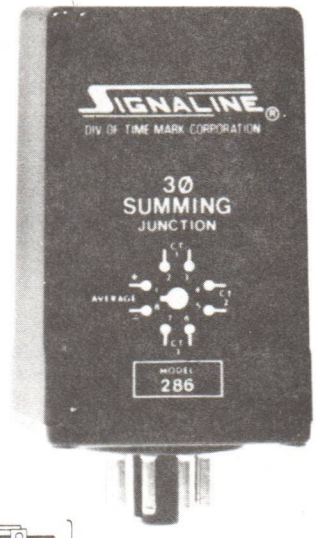
FORM NO.
87A188 3/87

Model 286

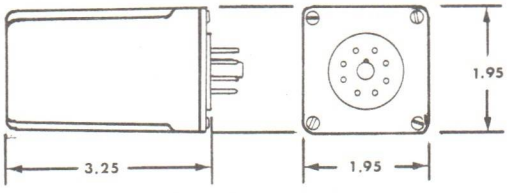
3 - PHASE SUMMING JUNCTION

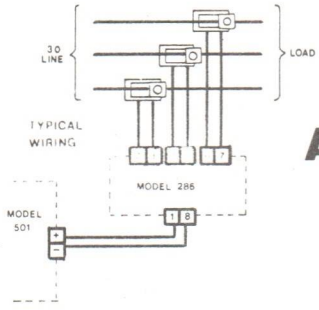


DESCRIPTION

The Model 286 3 - Phase Summing Junction is used to obtain the signal from a 3 - phase line and feed that signal into a SIGNALINE load controller. The device electronically adds the signals from three Model 276 D Current Transducers, or three 55A44 Transducers, and divides the sum by three, producing a signal that is proportionaly to the true average of the currents in the 3 phases. Output of the unit is a DC voltage in the range of 0 to 15 volts. Polarity must be observed when connecting to the load controller. The Model 286 plugs into a standard 8 - pin relay socket (available separately).

DIMENSIONS

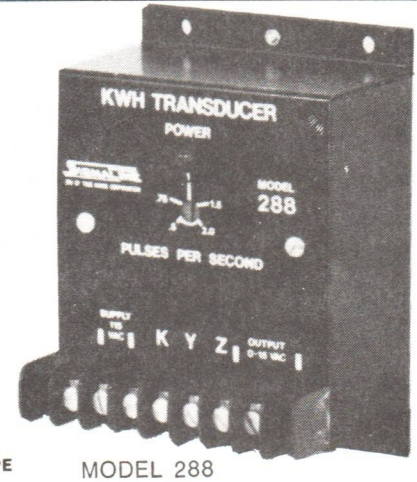




APPLICATION

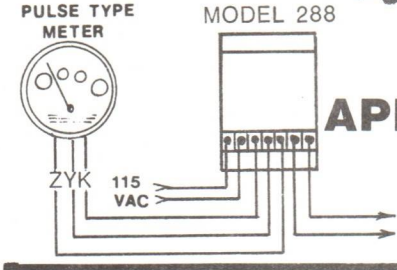
Model 288

KWH (KILOWATT- HOUR) TRANSDUCER



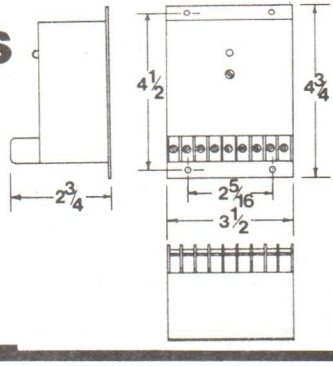
DESCRIPTION

The Model 288 KWH Transducer was designed to convert the pulses received from a pulse type demand meter into a 0 to 15 VDC signal that is proportional to the rate of power consumption. The maximum allowable pulse rate is adjustable from 0.5 to 2.0 pulse per second. The device electronically counts the number of pulses received in each one minute period and sets the output voltage proportionally. The output is designed to be used with SIGNALINE Demand Load Controllers. Operating voltage is 115 VAC. Since the output voltage is DC, polarity must be observed when connecting to the Load Controller.



APPLICATION

DIMENSIONS



SIGNALINE
DIV OF TIME MARK CORPORATION
11440 East Pine Street
Tulsa, Oklahoma 74116
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TITLE:	Unless Otherwise Specified Dimensions Are In Inches Drawings Show No Power Applied
DRAWING NUMBER:	© Copyright TMC 1984